

**STUDY ON THE USE OF METALS MERCURY (Hg) THE PROCESSING OF
GOLD WITHOUT PERMISSION OF THE QUALITY OF THE WATERS IN
THE VILLAGE OF RIVER WANGEOTAK SABALEH,
MALIFUT DISTRICT, NORTH HALMAHERA REGENCY
NORTH MALUKU PROVINCE**

ABSTRACT

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Environmental damage is a side effect of human actions to achieve a goal that has consequences on the environment. Gold processing without the permission of the people around the river Wangeotak an impact on conditions in the river waters, the quality of waters contaminated with metals Mercury (Hg) have an impact on plankton that is the manufacturer of the first level in the food chain and if the accumulation of metallic mercury (Hg) in the body will impact on the fish-eating green plants (herbivores), then the fish are meat eaters (carnivores) subsequent impact on human health safety of consuming fish in the river.

Most of the village Sabaleh North Halmahera District Malifut perform the processing of gold in river flow Wangeotak, by establishing semi-permanent buildings on the banks of the river Wangeotak. This activity does not have the permission of the local government so that said activities are illegal and uncontrolled. Gold processing activities without the permission of the people are using mercury (Hg) to separate metals from particles of gold or other minerals, and waste directly discharged into the river Wangeotak.

The method used is based on the parameters of physics, chemistry conducted by Survey Methods and laboratory analysis. Methods of research conducted in several stages, among others, the preparation stage, the stage of field work, laboratory work phase, the analysis phase, evaluation phase and stage of the preparation of reports. In general, public health conditions are still not affected by the presence of gold bijhih processing by using mercury as the amount of mercury still below the threshold limit of 0.005 mg / l (ppm). But if the gold mining activity processing activity continues, it could have passed the quality standard has been set.

Keyword : *Wangeotak River water, Mercury (Hg), Gold.*